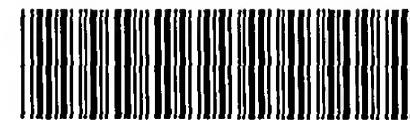0590

#2

OIPE

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/081,119

DATE: 03/08/2002
TIME: 15:11:03

Input Set : D:\Seqlist.txt
Output Set: N:\CRF3\03082002\J081119.raw

```
   4 <110> APPLICANT: Reinhard, Christoph
   5        Jefferson, Anne B.
   6        Chan, Vivien W.
   8 <120> TITLE OF INVENTION: TTK in Diagnosis and as a Therapeutic
   9        Target in Cancer
  11 <130> FILE REFERENCE: 16932.002
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/081,119
  14 <141> CURRENT FILING DATE: 2002-02-21
  16 <150> PRIOR APPLICATION NUMBER: 60/289,813
  17 <151> PRIOR FILING DATE: 2001-02-21
  19 <160> NUMBER OF SEQ ID NOS: 38
  21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
  23 <210> SEQ ID NO: 1
  24 <211> LENGTH: 20
  25 <212> TYPE: DNA
  26 <213> ORGANISM: Artificial Sequence
  28 <220> FEATURE:
  29 <223> OTHER INFORMATION: synthesized oligonucleotide
  31 <400> SEQUENCE: 1
  32 cggaatcaag tcttctagct                                    20
  34 <210> SEQ ID NO: 2
  35 <211> LENGTH: 21
  36 <212> TYPE: DNA
  37 <213> ORGANISM: Artificial Sequence
  39 <220> FEATURE:
  40 <223> OTHER INFORMATION: synthesized oligonucleotide
  42 <400> SEQUENCE: 2
  43 ggttgctcaa aagttggtat g                                  21
  45 <210> SEQ ID NO: 3
  46 <211> LENGTH: 24
  47 <212> TYPE: DNA
  48 <213> ORGANISM: Artificial Sequence
  50 <220> FEATURE:
  51 <223> OTHER INFORMATION: synthesized oligonucleotide
  53 <400> SEQUENCE: 3
  54 cgggaaatcg tgcgtgacat taag                               24
  56 <210> SEQ ID NO: 4
  57 <211> LENGTH: 24
  58 <212> TYPE: DNA
  59 <213> ORGANISM: Artificial Sequence
  61 <220> FEATURE:
  62 <223> OTHER INFORMATION: synthesized oligonucleotide
  64 <400> SEQUENCE: 4
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                    RAW SEQUENCE LISTING          DATE: 03/08/2002
                    PATENT APPLICATION:  US/10/081,119    TIME: 15:11:03

                    Input Set : D:\Seqlist.txt
                    Output Set: N:\CRF3\03082002\J081119.raw

 65 tgatctcctt ctgcatcctg tcgg                               24
 67 <210> SEQ ID NO: 5
 68 <211> LENGTH: 25
 69 <212> TYPE: DNA
 70 <213> ORGANISM: Artificial Sequence
 72 <220> FEATURE:
 73 <223> OTHER INFORMATION: synthesized oligonucleotide
 75 <400> SEQUENCE: 5
 76 gggactcttc caaatgggca tgact                              25
 78 <210> SEQ ID NO: 6
 79 <211> LENGTH: 25
 80 <212> TYPE: DNA
 81 <213> ORGANISM: Artificial Sequence
 83 <220> FEATURE:
 84 <223> OTHER INFORMATION: synthesized oligonucleotide
 86 <400> SEQUENCE: 6
 87 tccagtaact cttgcgttcc catgg                              25
 89 <210> SEQ ID NO: 7
 90 <211> LENGTH: 25
 91 <212> TYPE: DNA
 92 <213> ORGANISM: Artificial Sequence
 94 <220> FEATURE:
 95 <223> OTHER INFORMATION: synthesized oligonucleotide
 97 <400> SEQUENCE: 7
 98 tcagtacggg taaaccttct caggg                              25
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 25
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: synthesized oligonucleotide
108 <400> SEQUENCE: 8
109 ggtacccttg cgttctcaat gacct                              25
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 25
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: synthesized oligonucleotide
119 <400> SEQUENCE: 9
120 taggtctttg gccggtgatg ggtcg                              25
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 25
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: synthesized oligonucleotide
130 <400> SEQUENCE: 10
131 gctgggtagt ggccggtttc tggat                              25
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RAW SEQUENCE LISTING   DATE: 03/08/2002
PATENT APPLICATION: US/10/081,119   TIME: 15:11:03

            Input Set : D:\Seqlist.txt
            Output Set: N:\CRF3\03082002\J081119.raw

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133 <210> SEQ ID NO: 11
134 <211> LENGTH: 25
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: synthesized oligonucleotide
141 <400> SEQUENCE: 11
142 actcatctgg ctgggctatg gtggt                                    25
144 <210> SEQ ID NO: 12
145 <211> LENGTH: 25
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: synthesized oligonucleotide
152 <400> SEQUENCE: 12
153 tggtggtatc gggtcggtct actca                                    25
155 <210> SEQ ID NO: 13
156 <211> LENGTH: 3866
157 <212> TYPE: DNA
158 <213> ORGANISM: Homo sapien
160 <220> FEATURE:
161 <221> NAME/KEY: CDS
162 <222> LOCATION: (1026)...(3551)
164 <221> NAME/KEY: misc_feature
165 <222> LOCATION: (0)...(0)
166 <223> OTHER INFORMATION: TTK
168 <400> SEQUENCE: 13
169 ggaattcctt tttttttttt tttgagatgg agtttcactc ttgttggcca ggctggagtg 60
170 caatggcaca atctcagctt actgcaacct ccgcctcccg ggttcaagcg attctcctgc 120
171 ctcagcctct caagtagctg ggattacagg catgtgccac caccctggc taactaattt 180
172 cttttctatt tagtagagat ggggtttcac catgttggtc aggctggtct tgaactcctg 240
173 acctcaggtg atccacttgc cttggcctcc caaagtgcta ggattacagc cgtgaaactg 300
174 tgcctggctg attctttttt tgttgttgga tttttgaaac agggtctccc ttggtcgccc 360
175 aggctggagt gcagtggtgc gatcttggct cactataacc tccacctcct ggtttcaagt 420
176 gatcctccca ctttagcctc ctgagtagct gtgattacag gcgtgcacca ccacacccgg 480
177 ctaattttg tatttttatt agagacaggg tttcaccatg ttggccaggc tgttctcaaa 540
178 ctcctggact caagggatcc gcctgcctcc acttcccaaa gtcccgagat tacaggtgtg 600
179 agtcaccatg cctgacctta taattcttaa gtcattttt ctggtccatt tcttccttag 660
180 ggtcctcaca acaaatctgc attaggcggt acaataatcc ttaacttcat gattcacaaa 720
181 aggaagatga agtgattcat gatttagaaa ggggaagtag taagcccact gcacactcct 780
182 ggatgatgat cctaaatcca gatacagtaa aaatggggta tgggaaggta gaatacaaaa 840
183 tttggtttaa attaattatc taaatatcta aaaacatttt tggatacatt gttgatgtga 900
184 atgtaagact gtacagactt cctagaaaac agtttgggtt ccatcttttc atttccccag 960
185 tgcagttttc tgtagaaatg gaatccgagg atttaagtgg cagagaattg acaattgatt 1020
186 ccata atg aac aaa gtg aga gac att aaa aat aag ttt aaa aat gaa gac 1070
187       Met Asn Lys Val Arg Asp Ile Lys Asn Lys Phe Lys Asn Glu Asp
188        1               5                  10                 15
190 ctt act gat gaa cta agc ttg aat aaa att tct gct gat act aca gat      1118
191 Leu Thr Asp Glu Leu Ser Leu Asn Lys Ile Ser Ala Asp Thr Thr Asp
```

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PATENT APPLICATION: US/10/081,119   TIME: 15:11:03

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```
192                  20                  25                  30
194 aac tcg gga act gtt aac caa att atg atg atg gca aac aac cca gag   1166
195 Asn Ser Gly Thr Val Asn Gln Ile Met Met Met Ala Asn Asn Pro Glu
196              35                  40                  45
198 gac tgg ttg agt ttg ttg ctc aaa cta gag aaa aac agt gtt ccg cta   1214
199 Asp Trp Leu Ser Leu Leu Leu Lys Leu Glu Lys Asn Ser Val Pro Leu
200          50                  55                  60
202 agt gat gct ctt tta aat aaa ttg att ggt cgt tac agt caa gca att   1262
203 Ser Asp Ala Leu Leu Asn Lys Leu Ile Gly Arg Tyr Ser Gln Ala Ile
204      65                  70                  75
206 gaa gcg ctt ccc cca gat aaa tat ggc caa aat gag agt ttt gct aga   1310
207 Glu Ala Leu Pro Pro Asp Lys Tyr Gly Gln Asn Glu Ser Phe Ala Arg
208  80                  85                  90                  95
210 att caa gtg aga ttt gct gaa tta aaa gct att caa gag cca gat gat   1358
211 Ile Gln Val Arg Phe Ala Glu Leu Lys Ala Ile Gln Glu Pro Asp Asp
212              100                 105                 110
214 gca cgt gac tac ttt caa atg gcc aga gca aac tgc aag aaa ttt gct   1406
215 Ala Arg Asp Tyr Phe Gln Met Ala Arg Ala Asn Cys Lys Lys Phe Ala
216              115                 120                 125
218 ttt gtt cat ata tct ttt gca caa ttt gaa ctg tca caa ggt aat gtc   1454
219 Phe Val His Ile Ser Phe Ala Gln Phe Glu Leu Ser Gln Gly Asn Val
220          130                 135                 140
222 aaa aaa agt aaa caa ctt ctt caa aaa gct gta gaa cgt gga gca gta   1502
223 Lys Lys Ser Lys Gln Leu Leu Gln Lys Ala Val Glu Arg Gly Ala Val
224      145                 150                 155
226 cca cta gaa atg ctg gaa att gcc ctg cgg aat tta aac ctc caa aaa   1550
227 Pro Leu Glu Met Leu Glu Ile Ala Leu Arg Asn Leu Asn Leu Gln Lys
228 160                 165                 170                 175
230 aag cag ctg ctt tca gag gag gaa aag aag aat tta tca gca tct acg   1598
231 Lys Gln Leu Leu Ser Glu Glu Glu Lys Lys Asn Leu Ser Ala Ser Thr
232              180                 185                 190
234 gta tta act gcc caa gaa tca ttt tcc ggt tca ctt ggg cat tta cag   1646
235 Val Leu Thr Ala Gln Glu Ser Phe Ser Gly Ser Leu Gly His Leu Gln
236          195                 200                 205
238 aat agg aac aac agt tgt gat tcc aga gga cag act act aaa gcc agg   1694
239 Asn Arg Asn Asn Ser Cys Asp Ser Arg Gly Gln Thr Thr Lys Ala Arg
240          210                 215                 220
242 ttt tta tat gga gag aac atg cca cca caa gat gca gaa ata ggt tac   1742
243 Phe Leu Tyr Gly Glu Asn Met Pro Pro Gln Asp Ala Glu Ile Gly Tyr
244      225                 230                 235
246 cgg aat tca ttg aga caa act aac aaa act aaa cag tca tgc cca ttt   1790
247 Arg Asn Ser Leu Arg Gln Thr Asn Lys Thr Lys Gln Ser Cys Pro Phe
248 240                 245                 250                 255
250 gga aga gtc cca gtt aac ctt cta aat agc cca gat tgt gat gtg aag   1838
251 Gly Arg Val Pro Val Asn Leu Leu Asn Ser Pro Asp Cys Asp Val Lys
252              260                 265                 270
254 aca gat gat tca gtt gta cct tgt ttt atg aaa aga caa acc tct aga   1886
255 Thr Asp Asp Ser Val Val Pro Cys Phe Met Lys Arg Gln Thr Ser Arg
256          275                 280                 285
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Input Set : D:\Seqlist.txt
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```
258 tca gaa tgc cga gat ttg gtt gtg cct gga tct aaa cca agt gga aat    1934
259 Ser Glu Cys Arg Asp Leu Val Val Pro Gly Ser Lys Pro Ser Gly Asn
260         290                 295                 300
262 gat tcc tgt gaa tta aga aat tta aag tct gtt caa aat agt cat ttc    1982
263 Asp Ser Cys Glu Leu Arg Asn Leu Lys Ser Val Gln Asn Ser His Phe
264         305                 310                 315
266 aag gaa cct ctg gtg tca gat gaa aag agt tct gaa ctt att att act    2030
267 Lys Glu Pro Leu Val Ser Asp Glu Lys Ser Ser Glu Leu Ile Ile Thr
268 320                 325                 330                 335
270 gat tca ata acc ctg aag aat aaa acg gaa tca agt ctt cta gct aaa    2078
271 Asp Ser Ile Thr Leu Lys Asn Lys Thr Glu Ser Ser Leu Leu Ala Lys
272                 340                 345                 350
274 tta gaa gaa act aaa gag tat caa gaa cca gag gtt cca gag agt aac    2126
275 Leu Glu Glu Thr Lys Glu Tyr Gln Glu Pro Glu Val Pro Glu Ser Asn
276         355                 360                 365
278 cag aaa cag tgg caa gct aag aga aag tca gag tgt att aac cag aat    2174
279 Gln Lys Gln Trp Gln Ala Lys Arg Lys Ser Glu Cys Ile Asn Gln Asn
280         370                 375                 380
282 cct gct gca tct tca aat cac tgg cag att ccg gag tta gcc cga aaa    2222
283 Pro Ala Ala Ser Ser Asn His Trp Gln Ile Pro Glu Leu Ala Arg Lys
284         385                 390                 395
286 gtt aat aca gag cag aaa cat acc act ttt gag caa cct gtc ttt tca    2270
287 Val Asn Thr Glu Gln Lys His Thr Thr Phe Glu Gln Pro Val Phe Ser
288 400                 405                 410                 415
290 gtt tca aaa cag tca cca cca ata tca aca tct aaa tgg ttt gac cca    2318
291 Val Ser Lys Gln Ser Pro Pro Ile Ser Thr Ser Lys Trp Phe Asp Pro
292                 420                 425                 430
294 aaa tct att tgt aag aca cca agc agc aat acc ttg gat gat tac atg    2366
295 Lys Ser Ile Cys Lys Thr Pro Ser Ser Asn Thr Leu Asp Asp Tyr Met
296                 435                 440                 445
298 agc tgt ttt aga act cca gtt gta aag aat gac ttt cca cct gct tgt    2414
299 Ser Cys Phe Arg Thr Pro Val Val Lys Asn Asp Phe Pro Pro Ala Cys
300         450                 455                 460
302 cag ttg tca aca cct tat ggc caa cct gcc tgt ttc cag cag caa cag    2462
303 Gln Leu Ser Thr Pro Tyr Gly Gln Pro Ala Cys Phe Gln Gln Gln Gln
304         465                 470                 475
306 cat caa ata ctt gcc act cca ctt caa aat tta cag gtt tta gca tct    2510
307 His Gln Ile Leu Ala Thr Pro Leu Gln Asn Leu Gln Val Leu Ala Ser
308 480                 485                 490                 495
310 tct tca gca aat gaa tgc att tcg gtt aaa gga aga att tat tcc ata    2558
311 Ser Ser Ala Asn Glu Cys Ile Ser Val Lys Gly Arg Ile Tyr Ser Ile
312                 500                 505                 510
314 tta aag cag ata gga agt gga ggt tca agc aag gta ttt cag gtg tta    2606
315 Leu Lys Gln Ile Gly Ser Gly Gly Ser Ser Lys Val Phe Gln Val Leu
316                 515                 520                 525
318 aat gaa aag aaa cag ata tat gct ata aaa tat gtg aac tta gaa gaa    2654
319 Asn Glu Lys Lys Gln Ile Tyr Ala Ile Lys Tyr Val Asn Leu Glu Glu
320         530                 535                 540
322 gca gat aac caa act ctt gat agt tac cgg aac gaa ata gct tat ttg    2702
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VERIFICATION SUMMARY   DATE: 03/08/2002
PATENT APPLICATION: US/10/081,119   TIME: 15:11:04

Input Set : D:\Seqlist.txt
Output Set: N:\CRF3\03082002\J081119.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number